

ABSTRACT OF THE DISCLOSURE

An apparatus for preventing erosion of wellbore components comprises a wellscreen and a coating disposed on the wellscreen. The coating includes a metal-based coating and preferably nickel and phosphorous. The coating may also be organic-based such as phenolic resin containing ceramic or cermet. A method for fabricating an erosion and corrosion resistant wellbore component by providing the wellbore component and treating the wellbore component with erosion resistant materials. The treating step is conducted by plating the wellbore component, preferably by electroless plating. The treating step further comprises heat treatment of the wellbore component subsequent to plating. An additional step of inserting the treated wellbore component into a wellbore may also be conducted.